25X1

Approved For Release 2004/03/26 : CIA-RDP78B04747A002200010035-9

DECLASS REVIEW by NGA

14 April 1965
552A - CD-106
AKC:rf

DETERMINATION OF SETTING OF JOYSTICK ANGLE (θj)
552A VIEWERS

IMAGE ROTATION ONLY

The operator looks into the eyepiece and orients the fiber cable image at the eyepiece (θ); until the image is erect.

The corresponding joystick should then be oriented in the following manner:

A) Set θj = 360 degrees $-\theta$; (for image of the film to move opposite to the joystick). Here, the turret moves in correspondence with joystick. Or,

B) Set θj = 180 degrees $-\theta$; (for θ, less than 180 degrees)
= 540 degrees $-\theta$; (for θ, more than 180 degrees)

IMAGE ROTATION + INVERSION

This is achieved by inverting the image optically in addition to actuating the inversion switch at the control panel. Rotate θ, (at eyepiece) so that the image is erect.

A) To set θj: make it equal to θ; (for image of the film to move opposite to joystick.

B) Or, set θj = θ, $\pm$ 180 degrees (for the image of the film to move in correspondence with joystick).

NOTE: During the above operations, adjust the right objective to the right turret and the left joystick to the left turret.

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MOTOR SET AT HIGH SPEED

		Speed Range	Microns Per Step	Inches Per Step
Gear Train	H	0.04 in/Sec to 0.73 in/Sec.	50	.002
	M	0.0055 in/Sec to 0.10 in/Sec.	7	.00028
	L	0.00083 in/Sec to 0.015 in/Sec.	1	.00004

The pulse rates are approximately 20-360 pulses per second.

Slow Motor:

	Speed Range	Microns Per Step	Inches Per Step

The following data is for low stepping rates (mainly measurement). Where pulse rates are from 1 pps to 22 pps approximately.

H	.002 in/Sec to .045 in/Sec.	50	.002
M	.00028 in/Sec to .006 in/Sec.	7	.0028
L	.00004 in/Sec to .00092 in/Sec.	1	.0004

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Reference: Kodak B-3 pp 10

Present Lamp in use - approximate color temperature = 3300 degrees K at 21.5 volts

To convert this illumination (directly from lamp) to a color temperature of 3400 degrees K, a (-10 mired shift) filter is required. Transmission = 81% (for Wratten 82 filter).

When the voltage is dropped so that only 50% of the light is realized, then the color temperature drops to 3020 degrees K. The filter recommended is -32 Mired shift, having a transmission of 63.3% (for Wratten 82B filter). This filter converts the 3020 degrees K to 3400 degrees K.

When voltage is dropped for 70% of the light, then the recommended filter to use is Wratten 82A (-18 Mired shift) resulting in a transmission of 7.5%.

NOTE: These filters do not compensate for the color of the cable (-Blue).

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